RX-264

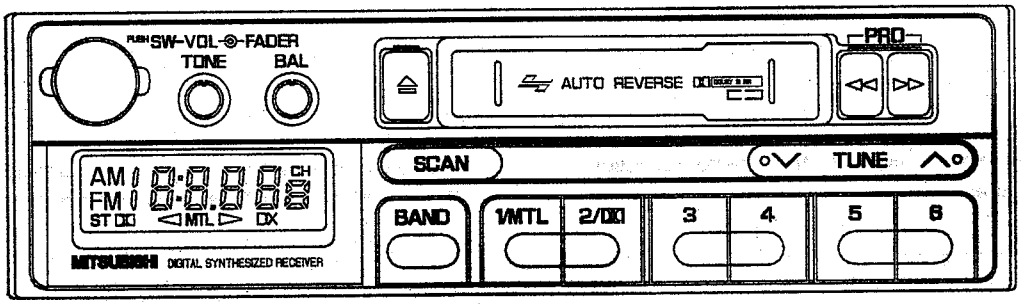
# MITSUBISHI

# SERVICE MANUAL

## AM / FM-ST ELECTRONIC TUNING RADIO
## CASSETTE CAR STEREO

Model : **RX-264, Y, L**

ID No. M546, M547, M545
PART No. MB649809, MB649810, MB649798

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# SPECIFICATIONS / FEATURES

## SPECIFICATIONS

### AM Radio

| | | | |
|---|---|---|---|
| ● Frequency Range | : 531~1710 kHz (SEEK, STEP: 1kHz) | ● Intermediate Frequency | : 450 kHz |
| | | ● Sensitivity (S/N 6dB) | : Less than 22 dB(μV) |

### FM Stereo Radio

| | | | |
|---|---|---|---|
| ● Frequency Range | : 87.50 ~ 108.00 MHz (SEEK, STEP: 25kHz) | ● Intermediate Frequency | : 10.7 MHz |
| | | ● Sensitivity (-3 dB Limiting) | : Less than 15 dB (μV) |

### Tape Player

| | | | |
|---|---|---|---|
| ● Reproduction System | : 4-Track, 2-Program Stereo | ● Noise Reduction Effect | : More than 8 dB |
| ● Tape Speed | : 4.76 cm / sec. | ● Cross-talk | : More than 50 dB |
| ● Wow and Flutter | : Less than 0.08 % (WRMS) | ● Separation | : More than 45 dB |
| ● Signal/Noise Ratio | : More than 56 dB | | |

### Others

| | | | |
|---|---|---|---|
| ● Power Supply | : DC 12V (11~16V) Test Voltage 13.2V Negative ground | ● Output Impedance | : 4Ω |
| | | ● Maximum Power Output | : 6W× 2 (Front) 6W× 2 (Rear) |
| ● Battery Back Up Current | : 0.7 mA | ● Dimensions | : 183(W)×169(D)×52(H)mm |
| ● Current Consumption | : ACC 1.4A ± 20% (Output 1W) ACC 2.1A ± 20% (MAX. Output) ILL 0.14A ± 20% | ● Weight | : 1.3 kg |

## FEATURES

### Radio

- Stable digital tuning of AM and FM by microprocessor controlled synthesizer.
- Dual functioned channel key for memory and preset.
- Dual functioned TUNE key for manual and SEEK tuning.

### Tape Deck

- Auto reverse mechanical deck.
- High position tape sensing (Metal and chrome tape).
- High fidelity play back using ***Dolby B** noise reduction.

### Audio Amp

- 4 Channels normal power amplifier.
- Auto loudness circuit.
- Tone control.
- Fader control.

### Others

- Power all off by pushing switch.
- Late mode priority.
- Push and pop up volume control (TONE , BAL).

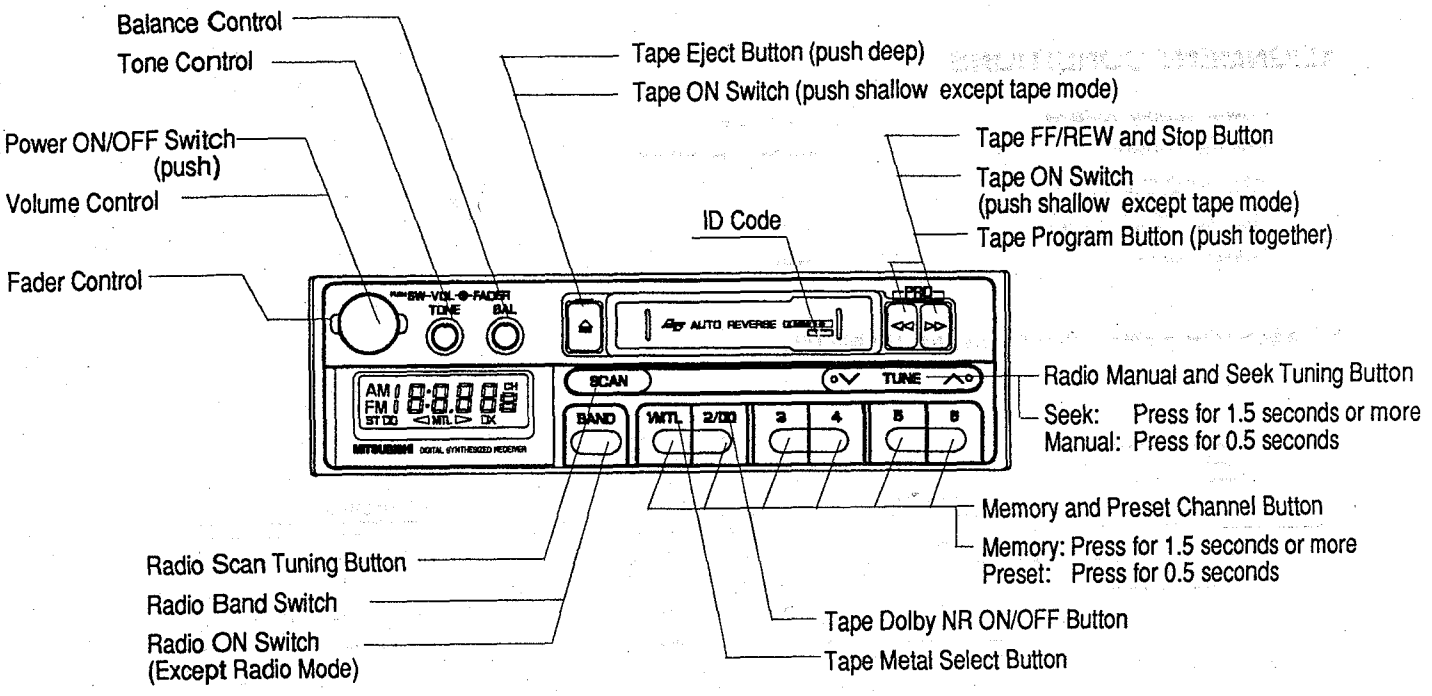
* Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.
" Dolby " and " Double -B " symbols are trademarks of Dolby Laboratories Licensing Corporation.

# COMPARISON LIST

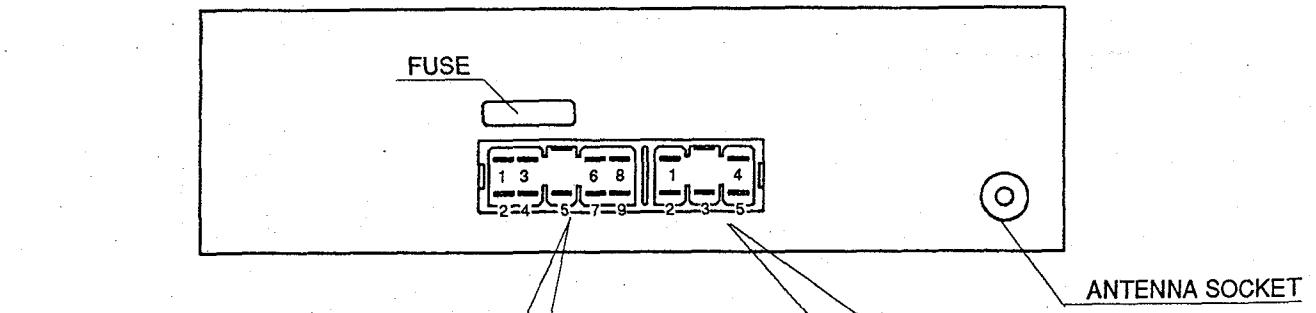
| ITEM / MODEL | RX-264 | RX-264Y | RX-264L |
|---|---|---|---|
| PART No. | MB 649809 | MB 649810 | MB 649798 |
| ID CODE | M 545 | M 546 | M 547 |
| PANEL LETTER COLOR | WHITE | ORANGE | DARK BEIGE |
| PANEL LIGHTING COLOR | GREEN | ORANGE | LIGHT BEIGE |

## OPERATION

This model RX-264, Y, L is available to select RADIO or TAPE mode from any mode.


Balance Control
Tone Control
Power ON/OFF Switch (push)
Volume Control
Fader Control
Tape Eject Button (push deep)
Tape ON Switch (push shallow except tape mode)
Tape FF/REW and Stop Button
Tape ON Switch (push shallow except tape mode)
Tape Program Button (push together)
ID Code
Radio Manual and Seek Tuning Button
Seek: Press for 1.5 seconds or more
Manual: Press for 0.5 seconds
Memory and Preset Channel Button
Memory: Press for 1.5 seconds or more
Preset: Press for 0.5 seconds
Radio Scan Tuning Button
Radio Band Switch
Radio ON Switch (Except Radio Mode)
Tape Dolby NR ON/OFF Button
Tape Metal Select Button
SCAN
TUNE
BAND

## REAR VIEW AND CONNECTORS




**9P CONNECTOR**

| | | | |
|---|---|---|---|
| 1: Illumination | ⊕ | 6: Rch Rear Speaker | ⊕ |
| 2: Accessory | | 7: Lch Front Speaker | ⊕ |
| 3: — | | 8: Rch Front Speaker | ⊕ |
| 4: Battery (Back up) | | 9: — | |
| 5: Lch Rear Speaker | ⊕ | | |

**5P CONNECTOR**

| | |
|---|---|
| 1: Lch Front Speaker | ⊖ |
| 2: Rch Front Speaker | ⊖ |
| 3: Motor Antenna Relay Control | |
| 4: Lch Rear Speaker | ⊖ |
| 5: Rch Rear Speaker | ⊖ |

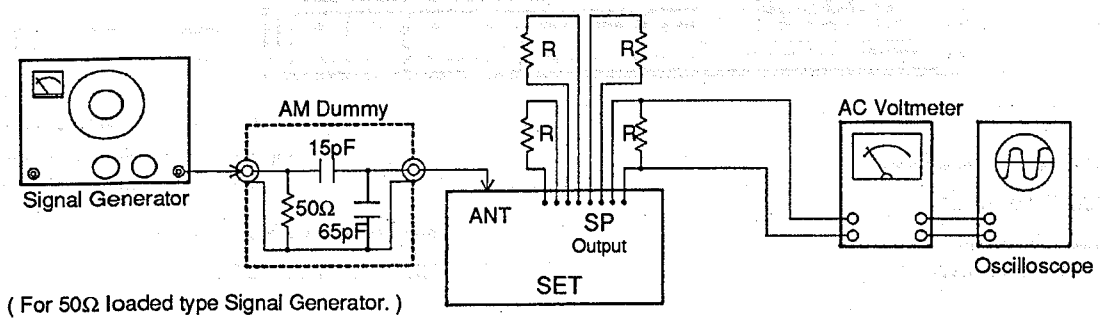
# ALIGNMENT PROCEDURE

NOTE: • Except for AM, FM TUNER part, because the AM, FM TUNER itself is set as the replacement parts.
• Radio part can be aligned and repaired without deck part.

## ALIGNMENT CONDITIONS

- Power supply voltage : DC 13.2V
- Volume control : Set for 1W output
- BAL, FAD Control : Center
- METAL, DOLBY Switch : OFF
- TONE Control : High

### 1. AM STOP SENSITIVITY (DX) ALIGNMENT

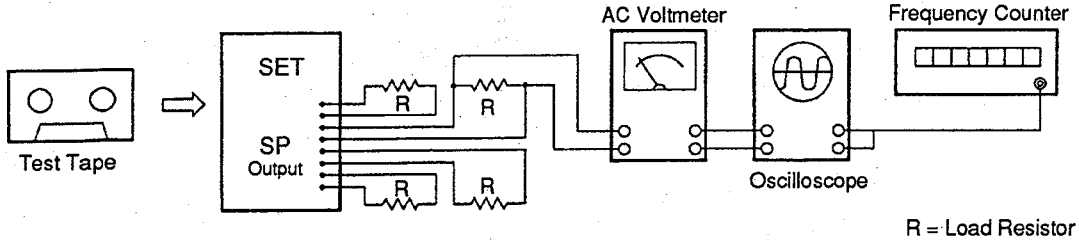



( For 50Ω loaded type Signal Generator. )

R = Load Resistor 4Ω 20W

| Adjust | Signal Generator | Tuning Point | Procedure |
|---|---|---|---|
| VR1 | 999 kHz<br>39 dB(μV) / 37 dB(μV)<br>400 Hz 30% MONO | 999 kHz | Adjust for the condition which SEEK stops at 39 dB(μV) and doesn't stop at 37 dB(μV).<br>( ILL : OFF ) |

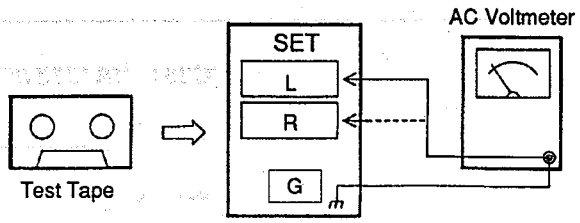
### 2. TAPE SPEED AND HEAD AZIMUTH ALIGNMENT




R = Load Resistor 4Ω 20W

| Adjust | Test Tape | Procedure |
|---|---|---|
| Motor speed semifixed in MOTOR | TEAC MTT-111N<br>(3 kHz recorded) | Adjust for 3060 Hz. |
| Head Azimuth adjustment screw | TEAC MTT-114N<br>(10 kHz recorded) | Adjust for equal output in both Forward and Reverse for Left and Right channels. |

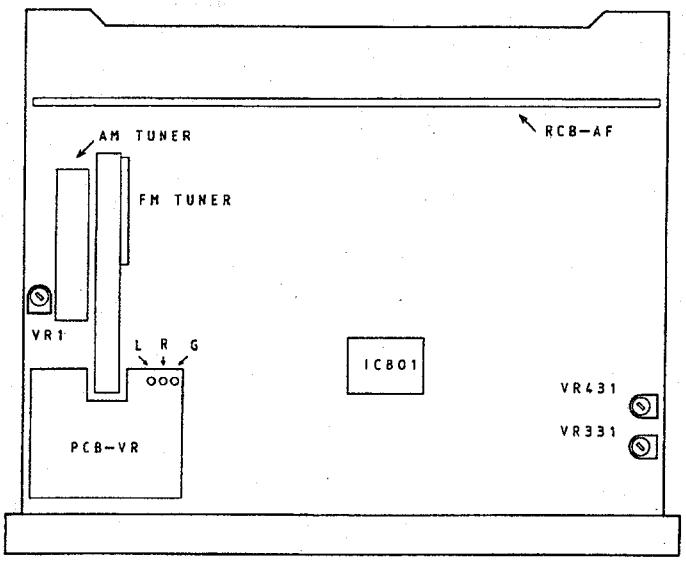
## 3. TAPE DOLBY, NR ALIGNMENT



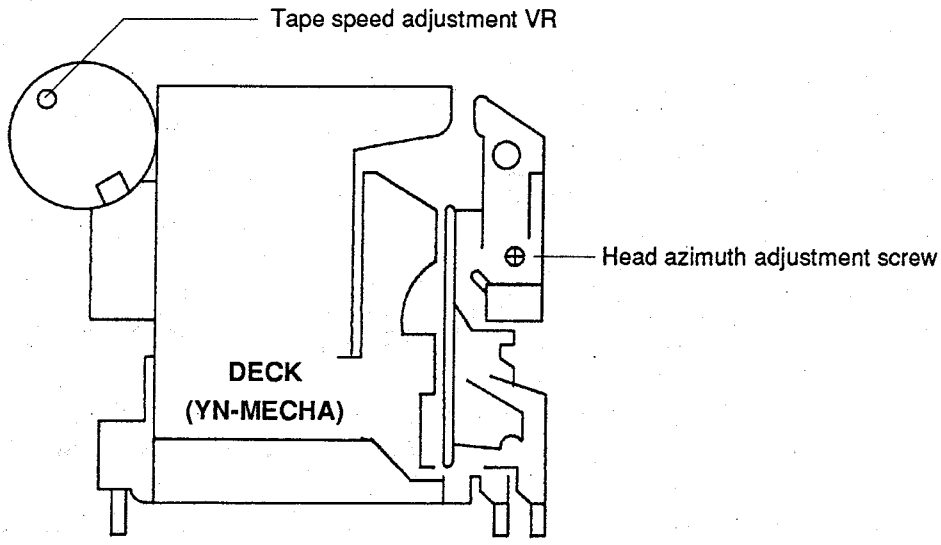

| Adjust | Test Tape | Procedure |
|---|---|---|
| VR331, VR431 | TEAC MTT-150<br>(400 Hz recorded) | Adjust for 337 mV.<br>VR331 (Lch) / VR431 (Rch) |

## 4. ADJUSTMENT POINT

### 4-1. PCB-RIF (Parts Side)

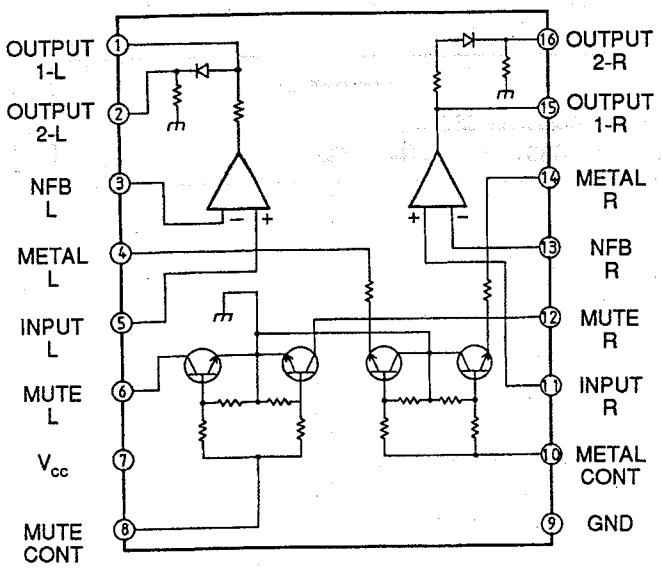



### 4-2. DECK ASSY (Top View)

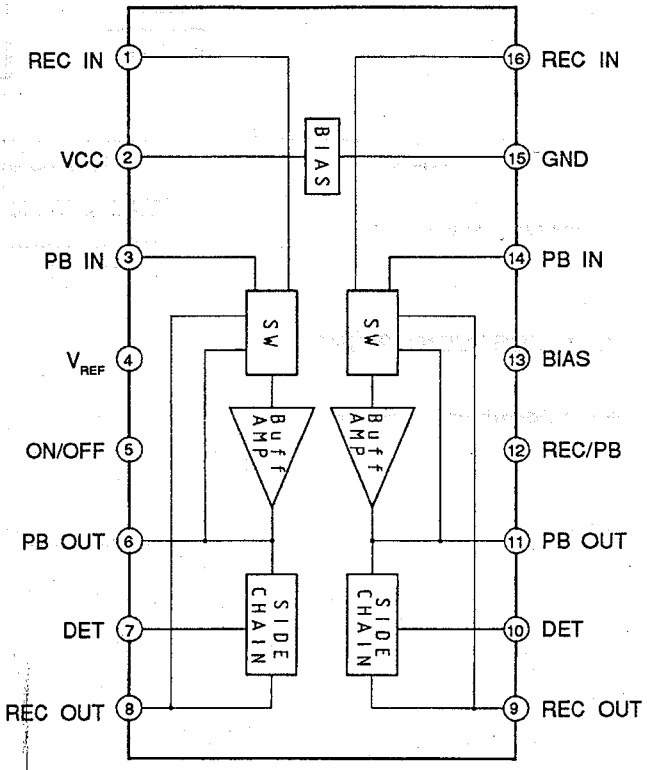


## IC EXPLANATION

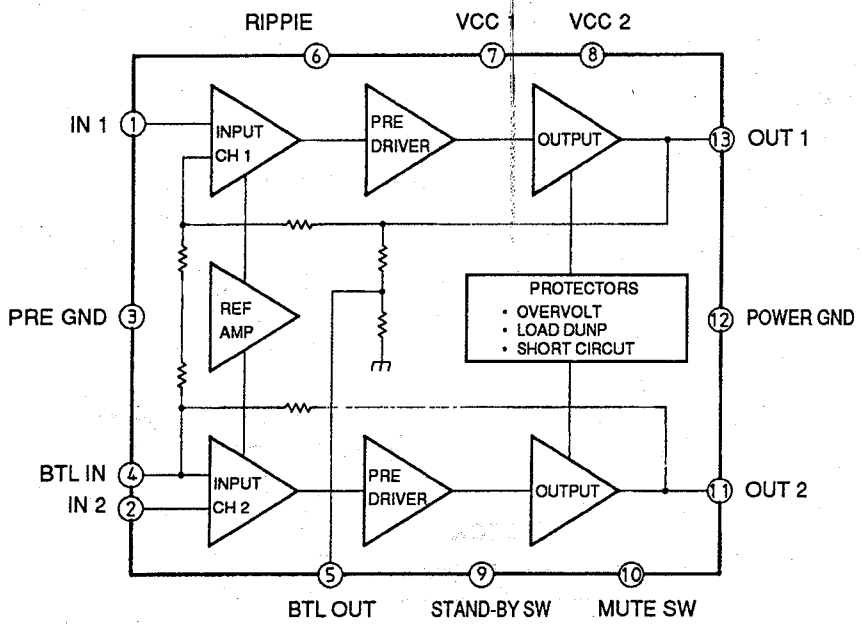
### IC301 *BA3406*




### IC331 *HA12134F*




### IC341,541 *LA4485*



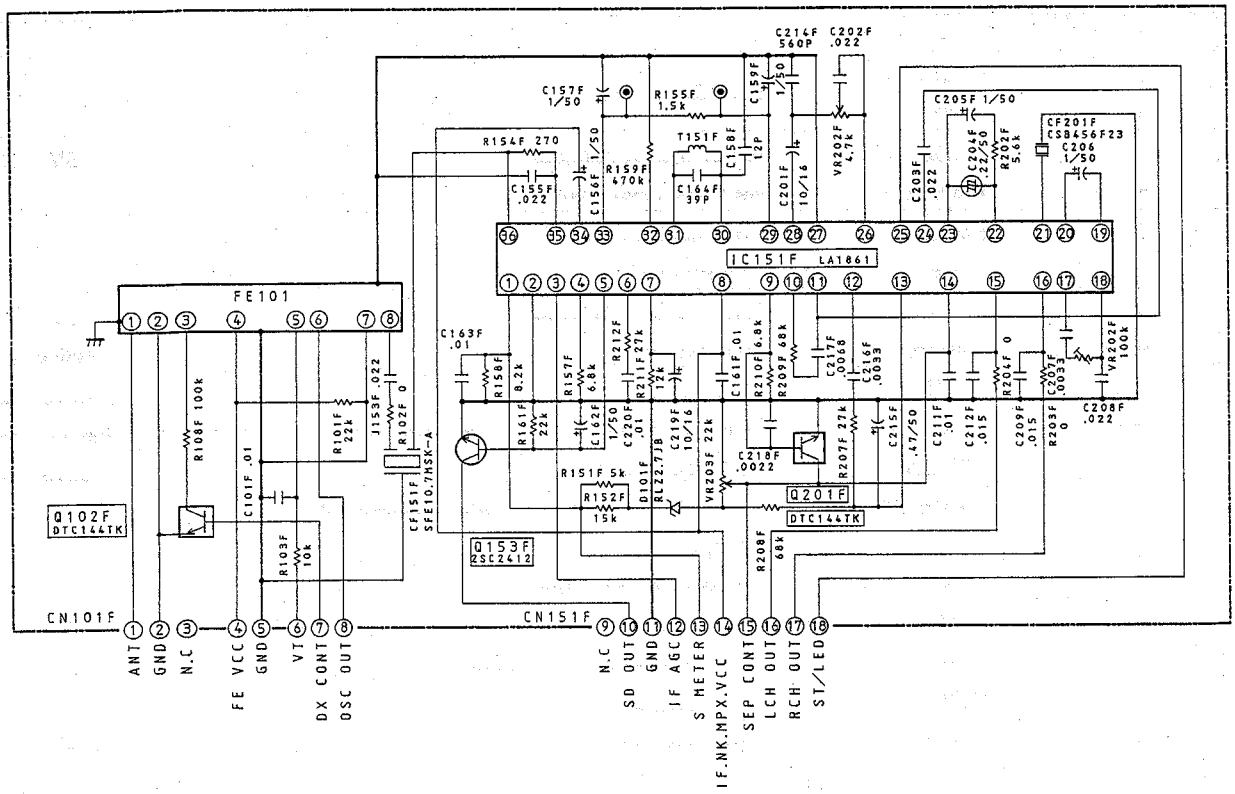
## IC 801 μPD1723GF-538

| Pin No. | Name | Function |
|---|---|---|
| 1 | — | — |
| 2 | EO 1 | Error Out output |
| 3 | EO 2 | |
| 4 | VDD | Power source terminal 5V ± 10% |
| 5 | AM LOC | AM Local OSC input |
| 6 | FM LOC | FM Local OSC input |
| 7 | CE | Chip Enable |
| 8 | VDD | Power source terminal 5V ± 10% |
| 9 | MUTE | Mute output Active: Low |
| 10 | MTL | Metal output Active: High |
| 11 | DX•LOC / DOL | Radio: DX/LOC output Tape: DOL output DX: Low, LOC: High, DOL: High |
| 12 | CD-ON | CD Mode output Active: High |
| 13 | SD WIDE/DIR | Radio: SD-WIDE input Tape: Direction input |
| 14 | SD | SD input |
| 15 | ST | Stereo indication input |
| 16 | AM IF | AM IF Frequency count input |
| 17 | FM IF | FM IF Frequency count input |
| 18 | $\overline{\text{TAPE-LD}}$ | Tape-Loading input Active: Low |
| 19 | TAPE-PLAY | Tape-Play input Active: Low |
| 20 | DECK ON | Deck ON output Active: High |
| 21 | BAND 1 | Radio-band selsct output |
| 22 | BAND 2 | |
| 23 | POWER-ON | Power ON output Active: High |
| 24 | X IN | Crystal oscillator terminal |
| 25 | X OUT | |
| 26 | GND | GND Terminal |
| 27 | RADIO-ON | Radio-ON output Active: High |
| 28 | CD-EN | CD-Enable output Active: High |
| 29 | CD-STP | CD-Stop output Active: High |
| 30~43 | LCD25~LCD12 | LCD Drive segment signal output |
| 44~55 | LCD11~LCD0 | LCD Drive segment signal output & key source signal output |
| 56 | COM 1 | LCD Common signal output |
| 57 | COM 2 | |
| 58 | GND | GND Terminal |
| 59~62 | K3~K0 | Key return signal input |
| 63 | A / D | Electric field intensity input<br>This signal function as s-meter when auto-store search, and judges the station at over 1.055V. |
| 64 | POWER | Power key input Active: Low |

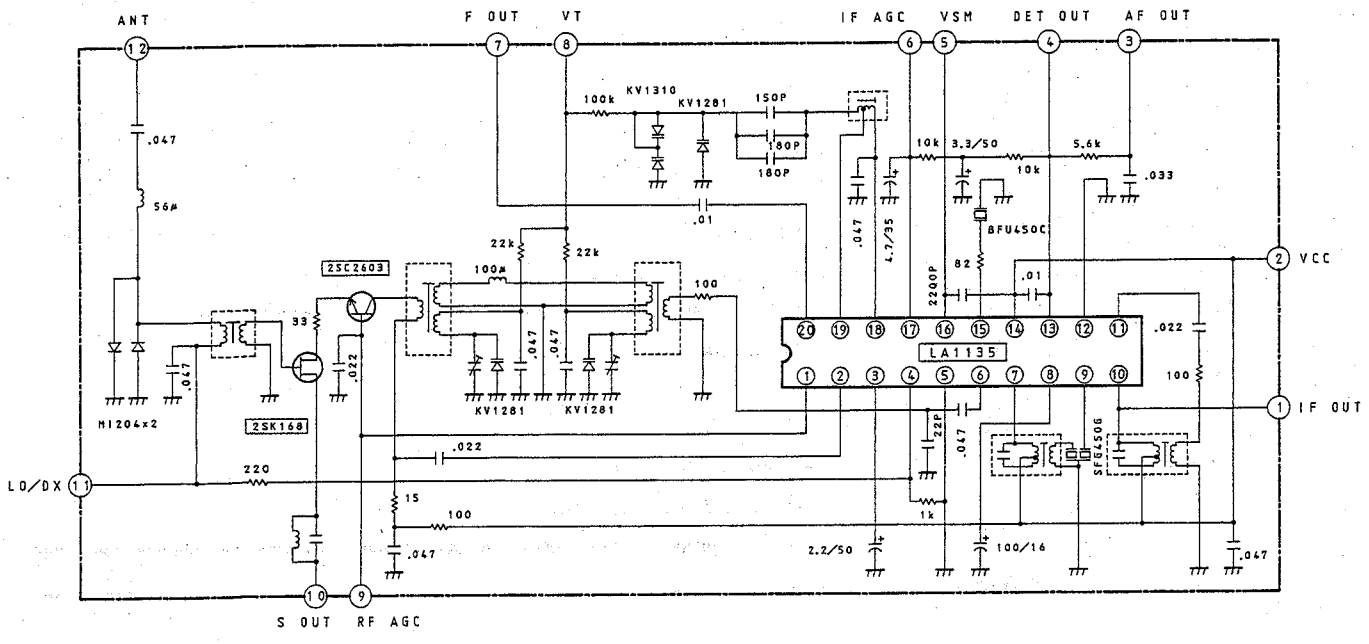
| | FM | AM | LW |
|---|---|---|---|
| PB 1 | Low | High | High |
| PB 2 | High | Hign | Low |

# FM , AMTUNER SCHEMATIC DIAGRAM

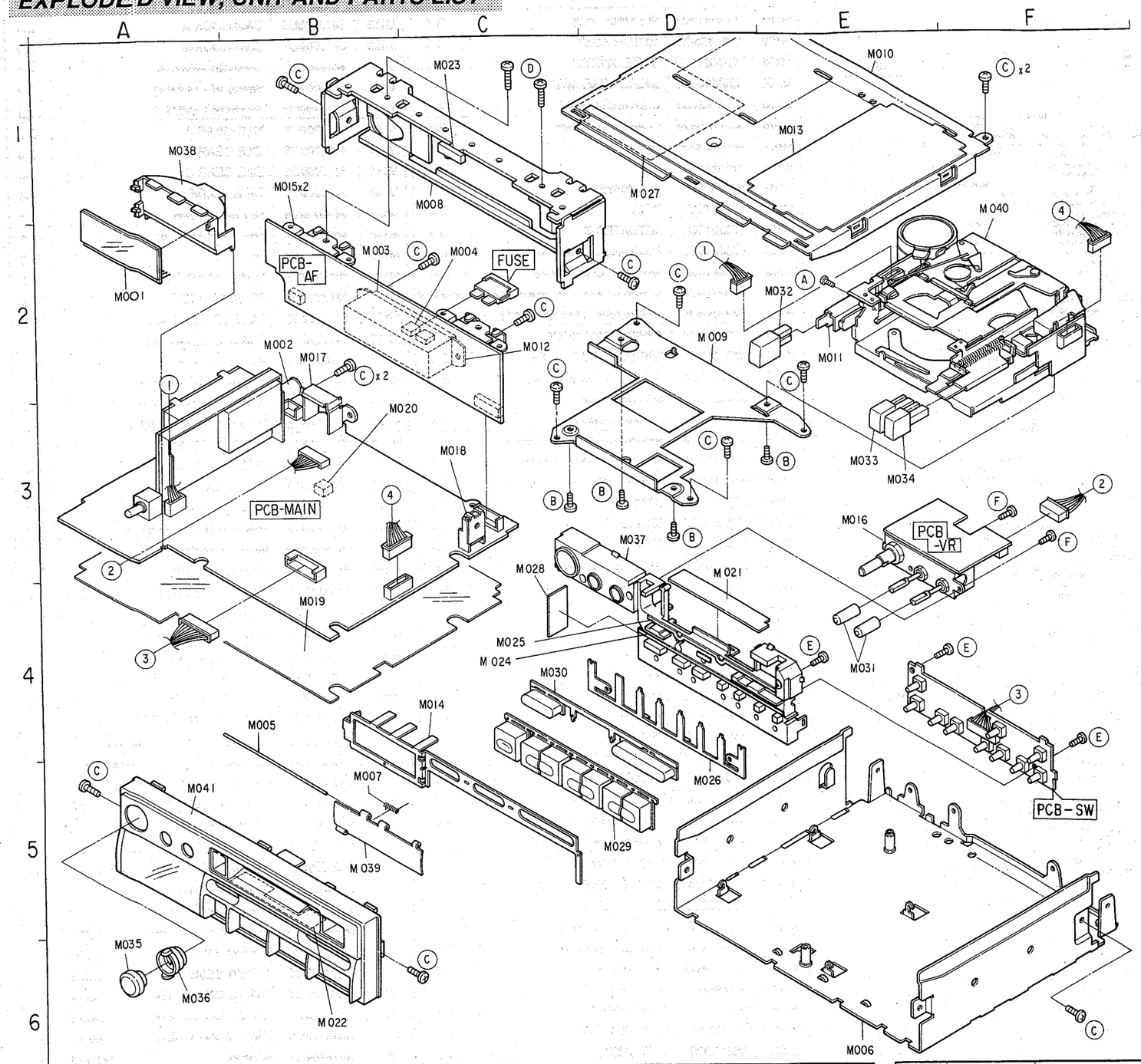
## FE101 (FM TUNER)




## FE1 (AM TUNER)



## EXPLODED VIEW, UNIT AND PARTS LIST




| Pef. No. | Part No. | Description | Index |
|---|---|---|---|
| M001 | 289P060O1 | LCD | A-2 |
| M002 | 449L076O2 | SOCKET-ANT | B-2 |
| M003 | 452K010O1 | CONNECTOR 9P—5P | B-2 |
| M004 | 457L004O1 | HOLDER-FUSE | C-2 |
| M005 | 531M072O2 | SHAFT-SHUTTER | B-4 |
| M006 | 560K192O4 | CHASSIS | E-6 |

| Pef. No. | Part No. | Description | Index |
|---|---|---|---|
| M007 | 570M363O2 | SPRING-SHUTTER | B-5 |
| M008 | 590J154O1 | HEAT-SINK | C-1 |
| M009 | 590K747O1 | HOLDER-DECK | D-2 |
| M010 | 590K748O4 | COVER | E-1 |
| M011 | 591L716O2 | LEVER-EJ | E-2 |
| M012 | 591L727O2 | HOLDER-CONNECTOR | C-2 |

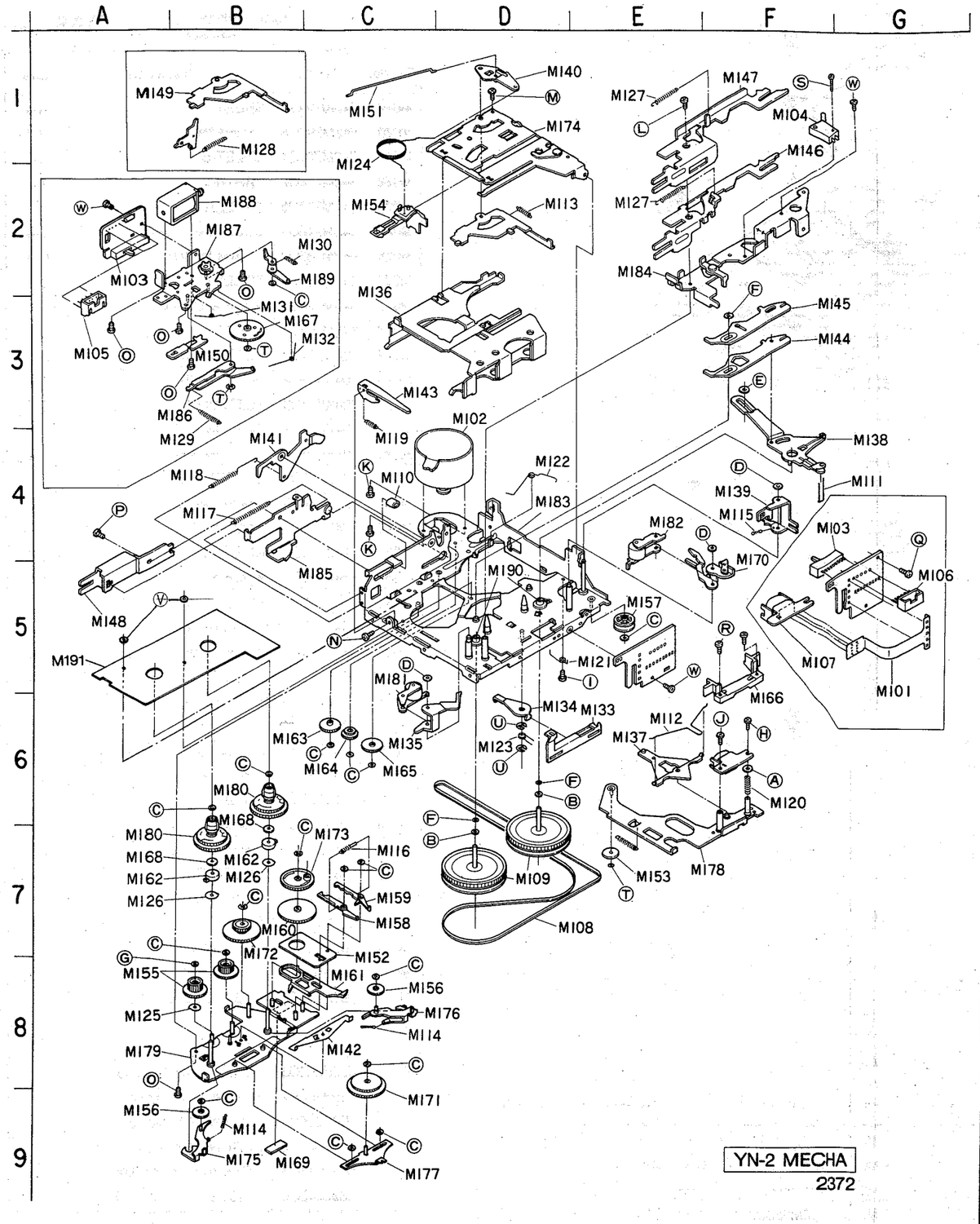
| Pef. No. | Part No. | Description | Index |
|---|---|---|---|
| M013 | 591L880O2 | PLATE-SHIELD .....3 | E-1 |
| M014 | 591L914O1 | EARTH-PLATE | C-4 |
| M015 | 591L956O1 | HOLDER-IC | B-1 |
| M016 | 592M883O2 | HOLDER-VR | E-3 |
| M017 | 592M939O2 | HOLDER-DIN | B-2 |
| M018 | 592M949O3 | HOLDER-TR | C-3 |

Model RX-264 .....1 RX-264L .....3
RX-264Y .....2

| Pef. No. | Part No. | Description | Index |
|---|---|---|---|
| M019 | 642K010O1 | SHEET | B-4 |
| M020 | 642M590O3 | CUSHION | B-3 |
| M021 | 642M704O1 | SHEET-B | D-3 |
| M022 | 642M712O2 | EARTH-S | B-6 |
| M023 | 642M718O5 | SPACER | C-1 |
| M024 | 642M746O1 | CUSHION-FACH2 | C-4 |
| M025 | 642M763O2 | CUSHION-SDT | C-4 |
| M026 | 642M781O1 | SCREEN | D-5 |
| M027 | 642M790O1 | INSULATOR-VR | D-1 |
| M028 | 642M791O1 | SHEET | C-3 |
| M029 | 704K054O1 | BUTTON-CH .....1 | D-5 |
| M029 | 704K054O2 | BUTTON-CH .....2 | D-5 |
| M029 | 704K054O3 | BUTTON-CH .....3 | D-5 |
| M030 | 704K055O1 | BUTTON-SDT .....1 | C-4 |
| M030 | 704K055O2 | BUTTON-SDT .....2 | C-4 |
| M030 | 704K055O3 | BUTTON-SDT .....3 | C-4 |
| M031 | 704L809O3 | KNOB-BAL | E-4 |
| M032 | 734L170O1 | KNOB-EJ .....1 | E-2 |
| M032 | 734L170O2 | KNOB-EJ .....2 | E-2 |
| M032 | 734L170O3 | KNOB-EJ .....3 | E-2 |
| M033 | 734L171O1 | KNOB-REW .....1 | E-3 |
| M033 | 734L171O2 | KNOB-REW .....2 | E-3 |
| M033 | 734L171O3 | KNOB-REW .....3 | E-3 |
| M034 | 734L172O1 | KNOB-FF .....1 | E-3 |
| M034 | 734L172O2 | KNOB-FF .....2 | E-3 |
| M034 | 734L172O3 | KNOB-FF .....3 | E-3 |
| M035 | 734L226O1 | KNOB-VOL | A-6 |
| M036 | 734L227O1 | KNOB-FAD | A-6 |
| M037 | 761J027O1 | PRISM | D-3 |
| M038 | 761K106O1 | HOLDER-LCD | A-1 |
| M039 | 768L104O4 | SHUTTER .....1 | B-5 |
| M039 | 768L104O5 | SHUTTER .....2 | B-5 |
| M039 | 768L104O6 | SHUTTER .....3 | B-5 |
| M040 | 891M237O5 | YN-MECHA | F-1 |
| M041 | 963M032O7 | ASSY-PANEL .....1 | A-5 |
| M041 | 963M032O8 | ASSY-PANEL .....2 | A-5 |
| M041 | 963M032O9 | ASSY-PANEL .....3 | A-5 |
| A | 650P260Q3 | SCREW-PAN M2.6X3 | — |
| B | 650P300P4 | SCREW-PAN M3X4 | — |
| C | 650P300P6 | SCREW-PAN M3X6 | — |
| D | 650P301Q0 | SCREW-PAN M3X10 | — |
| E | 669L043O3 | SCREW-TT-P M2.6X6 | — |
| F | 669L043O6 | SCREW-TT-P M2.6X8 | — |

BLUE COLOR MEANS CHIP PARTS
ON THE PRINTED BOARD.

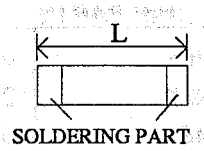
## EXPLODED VIEW, DECK AND PARTS LIST




| Ref. No. | Part No. | Description | Index |
|---|---|---|---|
| M101 | 241M41501 | FLEXIBLE-PCB | G-6 |
| M102 | 288L03502 | MOTOR-ASSY | D-3 |
| M103 | 431M01101 | SLIDE-SWITCH | F-4,A-2 |
| M104 | 436M00603 | MICRO-LEAF-SWITCH | F-1 |
| M105 | 452D13205 | CONNECTOR 5P | A-3 |
| M106 | 452D13206 | CONNECTOR 6P | G-5 |
| M107 | 460M00801 | HEAD | F-5 |
| M108 | 521M05101 | BELT | D-7 |
| M109 | 524J00601 | FLY-WHEEL | D-7 |
| M110 | 550L01201 | TUBE | C-4 |
| M111 | 570J01001 | ACTUATER-B | G-4 |
| M112 | 570J01002 | PINCH-ROLLER-SPRING | E-6 |
| M113 | 570J01003 | SPRING-TURN-PLATE | D-2 |
| M114 | 570J01004 | SPRING-TAKE-UP-GEAR-PLATE | B-9,C-8 |
| M115 | 570J01005 | SPRING-FR-CANCEL-PLATE | F-4 |
| M116 | 570J01006 | SPRING-CAM-HOOK | C-7 |
| M117 | 570J01007 | SPRING-EJECT-LEVER | B-4 |
| M118 | 570J01008 | SPRING-ACTION-ARM | B-4 |
| M119 | 570J01101 | SPRING-LOCK-PLATE | C-4 |
| M120 | 570J01102 | SPRING-AZIMUTH | F-6 |
| M121 | 570J01103 | SPRING-SENSOR-LEVER-B | E-5 |
| M122 | 570J01104 | SPRING-CHANGE-GEAR | D-4 |
| M123 | 570J01105 | SPRING-FR-CAM | D-6 |
| M124 | 570J01106 | SPRING-TURN | C-2 |
| M125 | 570J01107 | SPRING | A-8 |
| M126 | 570J01108 | SPRING | A-7,B-7 |
| M127 | 570J01201 | FR-LEVER-SPRING | E-1,E-2 |
| M128 | 570J01202 | SPRING | B-1 |
| M129 | 570J01203 | SPRING | B-4 |
| M130 | 570J01204 | SPRING | C-2 |
| M131 | 570J01205 | SPRING | B-3 |
| M132 | 570J01206 | SPRING | C-3 |
| M133 | 590J11101 | FR-CAM-B | E-6 |
| M134 | 590J11102 | FR-CAM-C | D-6 |
| M135 | 590J11103 | FR-CAM-D | C-6 |
| M136 | 592M93201 | CASSETTE-CASE | C-3 |
| M137 | 590J11105 | CHANGE-LINK-A | E-6 |
| M138 | 590J11106 | CHANGE-LINK-B | G-4 |
| M139 | 590J11107 | FR-CANCEL-PLATE | F-4 |
| M140 | 590J11201 | TURN-PLATE-B | D-1 |
| M141 | 590J11202 | ACTION-ARM | B-4 |
| M142 | 590J11203 | SENSOR-LEVER-A | C-8 |
| M143 | 592M93202 | LOCK-PLATE-B | C-3 |
| M144 | 590J11205 | CHANGE-LEVER-A | F-3 |
| M145 | 590J11206 | CHANGE-LEVER-B | F-3 |
| M146 | 592M93203 | FR-LEVER-A | F-1 |
| M147 | 592M93204 | FR-LEVER-B | F-1 |
| M148 | 590J11301 | KNOB-LEVER | A-5 |
| M149 | 592M93205 | TURN-PLATE-A | A-1 |
| M150 | 590J11303 | ACTUATER-A | B-3 |
| M151 | 637J00201 | COUPLING-BAR | C-1 |
| M152 | 640J00501 | THRUST-SHEET | C-7 |
| M153 | 641J00801 | HEAD-PLATE-ROLLER-B | E-7 |
| M154 | 641J00802 | CASSETTE-PUSHER | C-2 |
| M155 | 641J00803 | TAKE-UP-GEAR-C | A-8 |
| M156 | 641J00804 | TAKE-UP-GEAR-D | A-9,C-8 |
| M157 | 641J00805 | IDLE-PULLEY | E-5 |

| Ref. No. | Part No. | Description | Index |
|---|---|---|---|
| M158 | 641J00806 | CAM-HOOK-A | C-7 |
| M159 | 641J00807 | CAM-HOOK-B | C-7 |
| M160 | 641J00901 | CHANGE-GEAR-A | B-7 |
| M161 | 641J00902 | SENSOR-LEVER-B | C-8 |
| M162 | 641J00903 | SENSOR-LEVER-C | A-7,B-7 |
| M163 | 641J00904 | IDLE-GEAR-A | B-6 |
| M164 | 641J00905 | IDLE-GEAR-B | C-6 |
| M165 | 641J00906 | IDLE-GEAR-C | C-6 |
| M166 | 641J00907 | TAPE-GUIDE | F-6 |
| M167 | 641J00908 | SETTING-GEAR | B-3 |
| M168 | 642J00101 | FRICTION-FELT-B | A-7,B-6 |
| M169 | 642J00102 | FELT | B-9 |
| M170 | 891J02901 | TURN-LEVER-ASSY | F-5 |
| M171 | 891J02902 | FR-GEAR-ASSY | C-9 |
| M172 | 891J02903 | TAKE-UP-GEAR-ASSY | B-7 |
| M173 | 891J02904 | CHANGE-GEAR-ASSY | C-7 |
| M174 | 891M26501 | ACTION-PLATE | D-1 |
| M175 | 891J02906 | GEAR-PLATE-ASSY-A | B-9 |
| M176 | 891J02907 | GEAR-PLATE-ASSY-B | C-8 |
| M177 | 891J02908 | FR-GEAR-PLATE-ASSY | C-9 |
| M178 | 891J03001 | HEAD-PLATE-ASSY | F-7 |
| M179 | 891J03002 | REEL-PLATE-ASSY | A-8 |
| M180 | 891J03003 | REEL-GEAR-ASSY | A-7,B-6 |
| M181 | 891J03004 | PINCH-ROLLER-ASSY-A | C-5 |
| M182 | 891J03005 | PINCH-ROLLER-ASSY-B | E-4 |
| M183 | 891M26502 | MAIN-CHASSIS-ASSY | D-4 |
| M184 | 891M26503 | SIDE-PLATE-ASSY | E-2 |
| M185 | 891J03101 | EJECT-LEVER-ASSY | C-5 |
| M186 | 891J03102 | MOVING-ARM-ASSY | B-3 |
| M187 | 891J03103 | SUB-CHASSIS-ASSY | B-2 |
| M188 | 891J03104 | PLAY-SOLENOID | B-2 |
| M189 | 891J03105 | LOCK-PLATE-C-ASSY | C-2 |
| M190 | 530M02301 | CAPSTAN BEARING | D-5 |
| M191 | 640M10401 | PROTECTION SHEET | A-5 |
| A | 640J00502 | WASHER φ6.5Xφ2.1Xt0.4 | — |
| B | 640J00503 | PS-WASHER φ4Xφ2.1Xt0.25 | — |
| C | 640J00504 | PS-WASHER-CUT φ3.5Xφ1.2Xt0.25 | — |
| D | 640J00505 | PS-WASHER-CUT φ5Xφ2.1Xt0.5 | — |
| E | 640J00506 | PS-WASHER-CUT φ5.4Xφ3.1Xt0.25 | — |
| F | 640J00507 | PS-WASHER-CUT φ3.5Xφ1.7Xt0.5 | — |
| G | 640J00508 | PS-WASHER φ3Xφ1.3Xt0.25 | — |
| H | 669M18301 | SCREW-AZIMUTH | — |
| I | 669M18302 | SCREW-SENSOR | — |
| J | 669M18303 | HEAD-STUD-SCREW M2X5 | — |
| K | 669M18304 | SCREW-PAN M2.6X3 | — |
| L | 669M18305 | SCREW-SEMS M2.6X5 | — |
| M | 669M18306 | PRECISION-SCREW M2X4 | — |
| N | 669M18307 | PRECISION-SCREW M2X2 | — |
| O | 669M18308 | PRECISION-SCREW M2X3 | — |
| P | 669M18401 | SCREW M2.6X3 | — |
| Q | 669M18402 | PRECISION-SCREW M1.7X3 | — |
| R | 669M18403 | SEMS-SCREW M2X5 | — |
| S | 669M18404 | PRECISION-SCREW M1.7X6 | — |
| T | 685C00202 | E-RING φ1.2 | — |
| U | 685C00205 | E-RING φ2.5 | — |
| V | 640J00509 | PS-WASHER φ7.0Xφ2.1Xt0.25 | — |
| W | 669M18407 | PRECISION-SCREW M2X3 | — |

# ELECTRICAL PARTS LIST




< Chip Parts >

| Part No. | L | Part No. | L |
|---|---|---|---|
| 103L19XOX | 2.0mm | 141L04XOX | 3.2mm |
| 103L24XOX | 3.2mm | 141L06XOX | 2.0mm |

| Pef. No. | Part No. | Description | Pef. No. | Part No. | Description |
|---|---|---|---|---|---|
| | | **CHIP PARTS** | | | |
| | 103L199O9 | R-CARBON-CHIP 0Ω | | 103L194O2 | R-CARBON-CHIP 27kΩ |
| | 103L249O9 | R-CARBON-CHIP 0Ω | | 103L194O3 | R-CARBON-CHIP 33kΩ |
| | 103L190O7 | R-CARBON-CHIP 33Ω | | 103L194O5 | R-CARBON-CHIP 47kΩ |
| | 103L191O3 | R-CARBON-CHIP 100Ω | | 103L244O5 | R-CARBON-CHIP 47kΩ |
| | 103L191O9 | R-CARBON-CHIP 330Ω | | 103L194O7 | R-CARBON-CHIP 68kΩ |
| | 103L192O1 | R-CARBON-CHIP 470Ω | | 103L194O9 | R-CARBON-CHIP 100kΩ |
| | 103L242O1 | R-CARBON-CHIP 470Ω | | 103L244O9 | R-CARBON-CHIP 100kΩ |
| | 103L192O2 | R-CARBON-CHIP 560Ω | | 103L195O1 | R-CARBON-CHIP 150kΩ |
| | 103L192O3 | R-CARBON-CHIP 680Ω | | 103L195O3 | R-CARBON-CHIP 220kΩ |
| | 103L192O4 | R-CARBON-CHIP 820Ω | | 103L195O7 | R-CARBON-CHIP 470kΩ |
| | 103L192O5 | R-CARBON-CHIP 1kΩ | | 103L209O9 | R-CARBON-LEADLESS 0Ω |
| | 103L242O5 | R-CARBON-CHIP 1kΩ | | 103L203O1 | R-CARBON-LEADLESS 3.3kΩ |
| | 103L192O7 | R-CARBON-CHIP 1.5kΩ | | 141L071O9 | C-CERAMIC-CHIP 22pF |
| | 103L192O9 | R-CARBON-CHIP 2.2kΩ | | 141L060O7 | C-CERAMIC-CHIP 680pF |
| | 103L193O0 | R-CARBON-CHIP 2.7kΩ | | 141L060O9 | C-CERAMIC-CHIP 1000pF |
| | 103L193O1 | R-CARBON-CHIP 3.3kΩ | | 141L041O3 | C-CERAMIC-CHIP 2200pF |
| | 103L193O3 | R-CARBON-CHIP 4.7kΩ | | 141L042O1 | C-CERAMIC-CHIP 0.01μF |
| | 103L193O5 | R-CARBON-CHIP 6.8kΩ | | 141L062O1 | C-CERAMIC-CHIP 0.01μF |
| | 103L193O6 | R-CARBON-CHIP 8.2kΩ | | 141L042O5 | C-CERAMIC-CHIP 0.022μF |
| | 103L193O7 | R-CARBON-CHIP 10kΩ | | 141L062O5 | C-CERAMIC-CHIP 0.022μF |
| | 103L243O7 | R-CARBON-CHIP 10kΩ | | 141L067O6 | C-CERAMIC-CHIP 0.033μF |
| | 103L193O9 | R-CARBON-CHIP 15kΩ | | 141L067O8 | C-CERAMIC-CHIP 0.047μF |
| | 103L194O0 | R-CARBON-CHIP 18kΩ | | 189L073O3 | C-TANTAL-CHIP 2.2/16 |
| | 103L244O0 | R-CARBON-CHIP 18kΩ | | 189L073O5 | C-TANTAL-CHIP 4.7/16 |
| | 103L194O1 | R-CARBON-CHIP 22kΩ | | 189L077O1 | C-TANTAL-CHIP 0.22/35 |
| | 103L244O1 | R-CARBON-CHIP 22kΩ | | | |

Model RX-264 .....1 RX-264L .....3
RX-264Y .....2

| Pef. No. | Part No. | Description | Pef. No. | Part No. | Description |
|---|---|---|---|---|---|
| **CHIP PARTS** | | | | | |
| Q801,902,908 | 260L013O1 | TR-CHIP DTA124EK | D5,6,151,810,902 | 264L029O1 | DIODE-LEADLESS-CHIP PLS73 |
| Q805,816,909 | 260L030O1 | TR-CHIP DTC114EK | D1,801 | 264L037O1 | DIODE-CHIP DCC010 |
| Q7,111,803,804, 806,808,810,811, 911 | 260L014O1 | TR-CHIP DTC124EK | D7 | 264L030O6 | DIODE-CHIP DA204 |
| | | | D2,3,101,331,431, 808 | 264L030O2 | DIODE-CHIP DAN202K |
| Q815 | 260L042O5 | TR-CHIP DTC143TK | D905 | 264L055O4 | DIODE-CHIP RLZ5.6J-C |
| Q341,441,541,641 | 260L033O1 | TR-CHIP DTC323TK | D906,908 | 264L033O6 | DIODE-CHIP RLZ7.5J-B |
| Q5,807 | 260L017O1 | TR-CHIP 2SA1037 | D152,921 | 264L056O7 | DIODE-CHIP RLZ9.1J-A |
| Q103 | 260L048O1 | TR-CHIP 2SC2059KN | D912 | 264L057O4 | DIODE-CHIP RLZ11J-B |
| Q2~4,6,8~13,110, 802,809,812,901, 903 | 260L016O1 | TR-CHIP 2SC2412 | D802,804,806, 807,814,816, 820~823 | 264L060O1 | DIODE-CHIP 1SS332 |
| Q813,814 | 260L016O3 | TR-CHIP 2SC2412 | | | |
| **RESISTORS** | | | | | |
| R901 | 103P390O1 | R-FUSE 22 | VR302 | 129L294O1 | VR-TONE |
| VR1,331,431 | 127L020O4 | VR-SF 10kΩ-B | VR303 | 129L295O1 | VR-BAL |
| VR301 | 129L293O1 | VR-DOUBLE-SHAFT | | | |
| **SEMICONDUCTORS** | | | | | |
| Q904~907 | 260P600O1 | TR DTB123YA | D903 | 264L032O1 | DIODE ERA15-02 |
| Q1,102 | 260P486O1 | TR 2SB1277 | IC801 | 263P761O1 | IC μPD1723GF-538 |
| Q912 | 260P608O1 | TR 2SD1858 | IC901 | 266L009O7 | IC 78K09 |
| Q151 | 260P609O1 | TR 2SD1860 | IC301 | 272P201O1 | IC BA3406 |
| D901 | 264P407O1 | DIODE G-3D | IC331 | 272P197O5 | IC HA12134F |
| D904,907 | 264P411O1 | DIODE GP104003 | IC341,541 | 272P258O1 | IC LA4485 |
| **COILS & TRANS** | | | | | |
| L1 | 351L041O7 | COIL-CHOKE | L901 | 351L062O1 | TRANS-CHOKE |
| L101 | 351L041O3 | COIL-CHOKE | L902,903 | 351L062O2 | TRANS-CHOKE |
| **CONNECTORS** | | | | | |
| J101—J102 | 242M387O3 | LEAD-CONNECTOR 3P | J952 | 452M078O4 | CONNECTOR 4P |
| J302 | 246L146O1 | LEAD-CONNECTOR 8P | P301 | 452D132O8 | CONNECTOR 8P |
| J801 | 242M603O1 | LEAD-CONNECTOR 10P | P801 | 452D132O1 | CONNECTOR 10P |
| P999 | 246L022O8 | LEAD-CONNECTOR 5P | P951 | 452P043O8 | CONNECTOR 8P |
| P998 | 242M608O1 | LEAD-CONNECTOR 6P | P952 | 452M080O4 | CONNECTOR 4P |
| J951 | 452P043O4 | CONNECTOR 8P | P998 | 452D130O6 | CONNECTOR 6P |
| **OTHERS** | | | | | |
| F901 | 283M011O2 | FUSE 5A | PL801,802 | 253L067O9 | LAMP .....2 |
| F902 | 299P101O1 | PROTECTOR-IC | PL901 | 253L030O6 | LAMP-ASSY .....1 |
| FE1 | 890M525O9 | ASSY-TUNER-AM | PL901 | 253L030O8 | LAMP-ASSY .....3 |
| FE101 | 890M532O5 | ASSY-TUNER-FM | PL901 | 253L030O9 | LAMP-ASSY .....2 |
| K901 | 287L036O1 | RELAY | SA1 | 299L012O1 | SURGE-PROTECTOR |
| PL801,802 | 253L067O2 | LAMP .....1 | SW801~810 | 432L077O5 | SW-TACT |
| PL801,802 | 253L067O7 | LAMP .....3 | X801 | 285P072O3 | CRYSTAL |

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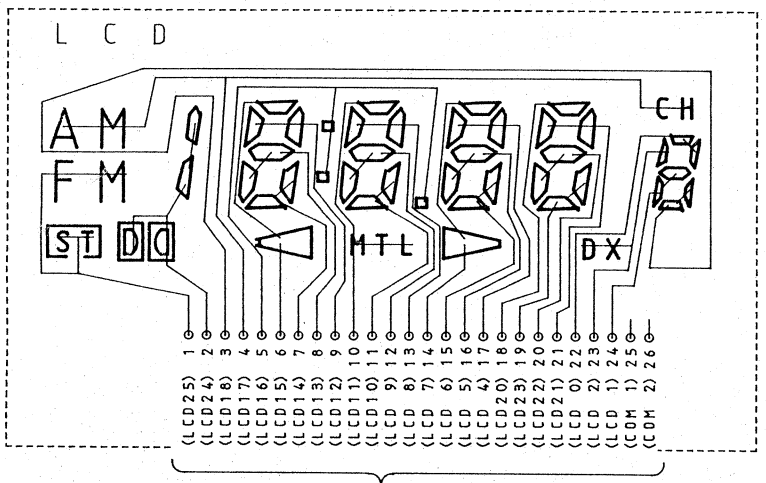
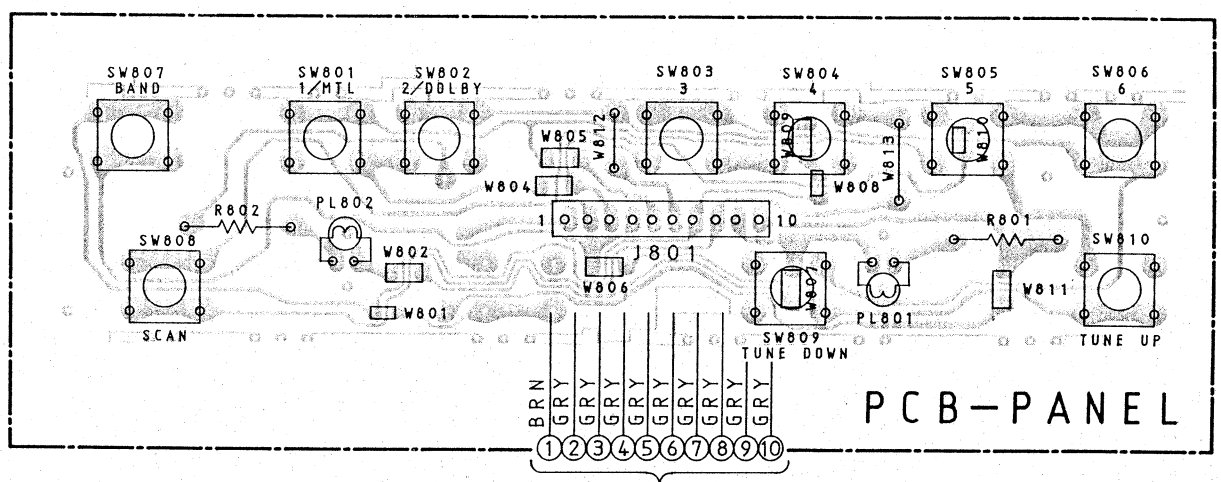
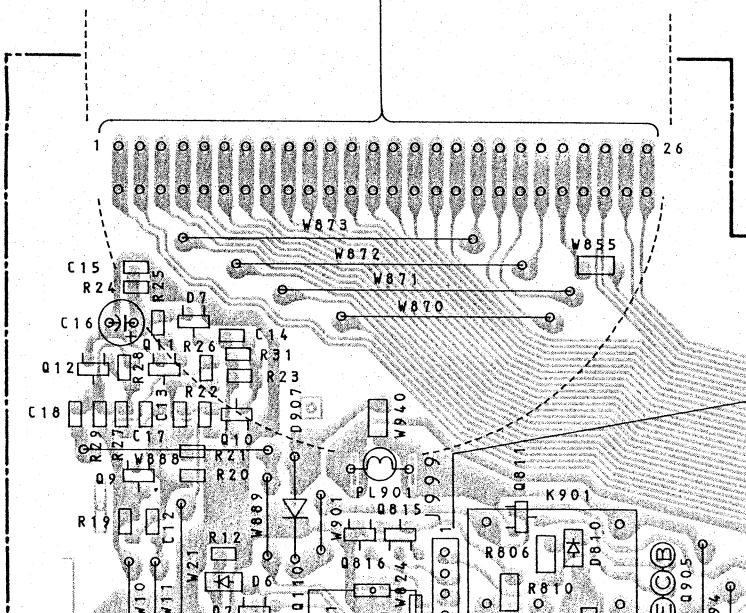
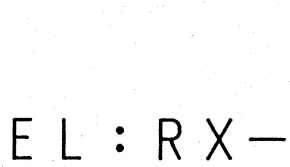
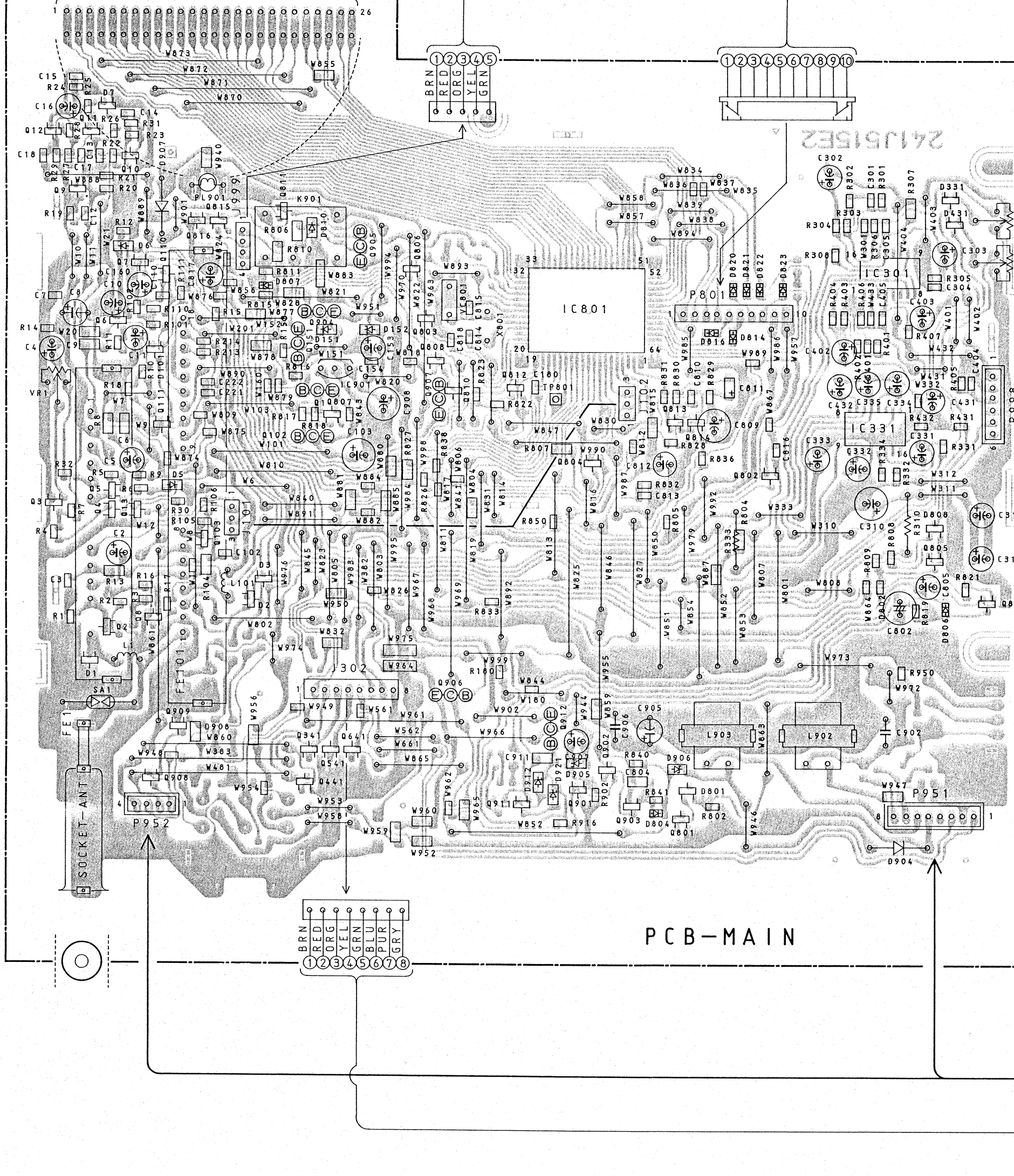
# PRINTED CIRCUIT BOARD MODEL : RX-264, L, Y.







Y.

SW806
6
SW810
UNE UP
NEL

MOTOR
BLK
RED

CLUTCH
CL301
BLU
BLU

BLK
RED
J.P
DS135
SW303
BLU
BLU
PCB－SW－ (B)

BLUE EXPRESS SHOWS
CHIP PARTS.

PCB－VOL
(NEW)
W301
W402
W401
R301
R402
R401
W304
W404
R302
C301
C401
R404
W405
SW301
R403
C403
VR301D
VOL
VR301C
W303
R304
R303
W305
W403
C402
C303
VR301B
FAD
VR301A
VR302B
VR302A
C302
VR303
P301
TONE
BAL

SW302
FF／REW
MUTE－SW
＜直付け＞

WHT
BLK
RED
GRY
GRY
BRN

HEAD
FPC－HEAD
SW304
PCB－SW－ (A)

PCB－VOL
(OLD)
W301
W402
W401
R301
R402
R401
W304
W404
R302
C301
C401
R404
W405
SW301
R403
C403
VR301D
FAD
VR301C
R304
R303
W305
W403
C402
C303
VR301B
VOL
VR301A
VR302B
VR302A
C302
VR303
P301
TONE
BAL

VR331
VR431
1
2
09

IC341
C441
W302
C446
C346
C343
C445
C345
C801
R444
R344
C904
C905
R801
R443
R343
W801
W441
C341
W907
J952
L904
W404
L903
R901
L901
W903
D901
W906
C541
C941
W904
W905
F901
F902
D903
W902
IC541
W501
C903
C546
C646
C545
C645
C543
R544
R644
R543
R643
C901
R901
D902
J951

PCB－AF

(9P－5P)

1.ILL +
2.ACC
3.ILL －
4.BATT
5.RL +
6.RR +
7.FL +
8.FR +
9.N.C

1.FL －
2.FR －
3.ANT
4.RL －
5.RR －

# SCHEMATIC DIAGRAM MODEL: RX-264, L, Y.

NOTICE

1. Indication
- All resistors otherwise spe
k=10^3 ohm,
- All capacitor unless otherw
P=10^-6 micro
2. Voltage Measu
Voltage measu
D, C, voltmeter
chassis groun
Tuning point
source volta
3. This circuit
to inprovemen

BLUE EXPRESS SHOWS CHIP PARTS

FE101 FM TUNER

ANT GND VCC GND VT MUTE OSC NOISE AGC SD GND IF CONT S METER VCC SEP CONT L OUT R OUT ST

FE1

ANT S OUT AGC VT LOC IF AGC VSM DET OUT AF OUT VCC IF OUT

FM WID SD

8V REG.

9V REG.

FM SW Q102 2SB1277

D151 RLS73 AM SW

BAND DET Q808 DTC124EC

Q1 2SB1277

IC901 78K09A

Q151 2SD1860

Q807 2SA1037

Q904 DTB123

RADIO ON

Q806 DTC124EK

D152 RLZ9.1J-A

AM IF BUFF AMP Q103 2SC2059KN

OSC AMP

AM IF AMP Q10 2SC2412

Q12 2SC2412 AM IF AMP

Q11 2SC2412 AM WID SD

D101 DAN202K

Q111 DTC124EK SD DET.

D7 DA204

D3 DAN202K

D2 DAN202K

Q5 2SA1037 MUTE AGC

Q6 2SC2412 ILL ON STOP SENS.

Q8 2SC2412

Q2 2SC2059KN

Q3 2SC2412

Q3 2SC2412 AM SD

Q13 2SC2412 STOP SENS.

Q7 DTC124EK

TAPE IN DET. Q816 DTC114EK Q815 DTC114EK

D807 1SS133

Q814 2SC2412 Q813 2SC2412 L.P.F

Q812 2SC2412 TAPE IN DET.

Q804 DTC124EK RADIO DET

Q802 2SC2412 TAPE DIR

Q907 DTB123YA

Q810 DTC124EK DECK ON SW

Q803 DTC124EK POWER ON DET.

D806 1SS332

D823 D820 D814 D816 1SS332 X4

D824 1SS332 D821 1SS332 D822 1SS332

J101 J102 J801 P801 TP801

IC801 μPD1723GF-538

X801 4.5MHz

POWER DECK-ON BAND POWER-ON RADIO-ON CD-EN CD-STP

PL801 PL802 R801 15 R802 15

RX-264Y
R801 47
R802 47

CH1 /MTL SW801
CH2 /DOLBY SW802
CH3 SW803
CH4 SW804
CH5 SW805
CH6 SW806
BAND SW807
TRAFFIC SW808
DOWN TUNE UP SW809 SW810

PCB-PANEL

J302 SW301 VR301A VR301B VR301C VR301D VR302A VR302B VR303

BAL TONE VOL FAD (OLD) PCB-VOL

AM 10.00 FM 10.00 CH ST MTL DX

TICE

Indication

All resistors are ohms unless otherwise specified.
k=10 $^{3}$ ohm, M=10 $^{6}$ ohm,

All capacitors are microfarads unless otherwise specified.
P=10 $^{-6}$ microfarad,

Voltage Measurements
Voltage measurement made with D, C, voltmeter (50kΩ/v DC) to chassis ground with no signal.
Tuning point (AM:531kHz, FM:87.9MHz) source voltage (13.2v)

This circuit is subject to inprovement without notice.

—:ACC LINE
—:SIGNAL LINE
—:BACK UP LINE

PCB-SW- (A)

F-L
R-L
F-R
R-R
FF/REW SW302
MUTE SW
P998

PCB-SW- (B)

PINCH OFF
DS135
CL301
SW303
J999

Q904 DTB123YA
RADIO DN SW
Q806 DTC124EK
Q111 DTC124EK
SD DET.
Q905 DTB123YA
Q811 DTC124EK
R806 470
D810 1SS133

C301 .01
R306 3.9k
R301 470k
R303 150k
R304 100
R302 15k
C305 .022
D331 DAN202k
VR331 10k-B
R307 100k
R308 10k
R407 100k
C405 .022
VR431 10k-B
D431 DAN202K
R404 100
R403 150k
R401 470k
R402 15k
C401 .01
R406 3.3k
IC301 BA3406AF
TAPE EQ
METAL ON:2.1 OFF:0

C304 680P
R305 33k
C309 4.7/16
C311 100/16
C312 100/16
C310 100/16
C403 4.7/16
C404 680
R405 33k
R310 680
C302 47/16
C402 47/16

DOLBY-NR.
R331 10k
R332 10k
R334 18k
C331 .47/50
C332 .22/50
IC331 HA12134FP
C431 .47/50
R431 10k
R432 10K
C334 1/50
C432 .22/50
C335 10/16
C333 100/16
R333 680
DOLBY ON:5.2 OFF:0

R804 47k
TP401
TP301

CPU POWER SW 5V REG
Q902 DTA124EK
Q901 2SC2419
D906 RLZ8.2J-B
D804 1SS133
R841 150k
R840 680
C804 4.7/16
Q903 2SC2412
ACC DET.
D905 RLZ5.6JC
R902 4.7k
C907 10/16
R836 47k
C816 .001
R805 47k
DIR

TAPE MUTE
Q805 DTC114EK
D801 DCC010
R802 10k
Q801 DTA124EK
POWER OFF MUTE
D802 RLS73
DAN202K
D808
R809 4.7k
R808 4.7k
C802 33/16
C906 .1
C905 330/16
D904 6P104003
C902 330/16
R980 1k

LAMP CONT.
Q912 2SD1858
R916 1k
ILL ON:8.0 OFF:11.2
ILL ON:8.4 OFF:10.6
D921 RLZ9.1J-A
C901 .022
PL901 LCD LAMP
D912 RLZ11J-B
C911 .022
Q911 DTC124EK
ILL DET.

D908 RLZ7.5J-B
Q908 DTA124EK
STANDBY SW
K901
Q909 DTC114EK
ACC DET.
6P104003 D907

Q906 DTB123YA
POWER ON SW
MUTE SW
DTC323TK X4
Q541
Q641
Q441
Q341
ON DET.

L902 E1-12
L903 E1-12

P952 P951
J952 J951
P301 J302
J302 P301

(NEW) PCB-VOL
R404 6.8k
R304 6.8k
C403 .1/50
C303 .1/50
POWER SW
SW301
C402 .033
VR302B
R403 2.7k
VR301D
R402 4.7k
VR301B
R401 4.7k
C401 .22/16
C301 .22/16
R302 4.7k
VR303
R303 2.7k
VR301C
VR301A
R301 4.7k
FAD
VR302A
C302 .033
BAL TONE VOL

F902 1CPF-75
F901 5A
ILL +
ACC
ILL-
BATT
RL +
RR +
FL +
FR +
N.C
FL -
FR -
ANT +
RL -
RR -
C901 330/99
D901 6M-30
D903 ERA-15
D902 RLS-73
R901 9.3k
L901
R922 22

FRONT POWER AMP
IC341 LA4485
REAR POWER AMP
IC541 LA4485
C346 2.2/16
C446 2.2/16
C646 2.2/16
C546 2.2/16
C641 1000/10
C541 1000/10
R443 33k
R343 33k
R543 33k
R643 33k
C345 .001
C445 .001
R344 27k
R444 27k
C343 100/16
C443 100/16
C904 2200/16
R801 1k
C905 .22/50
C645 .0022
C545 .0022
R644 33k
R544 27k
C543 100/16
C908 2200/16
C941 1000/10
C801 .01
C441 1000/10

PCB-AF